

NOTICE !

**ALL DRAWINGS
ARE LOCATED
AT THE END OF
THE DOCUMENT**

11 RF 3000

EG&G ROCKY FLATS



000017348

EG&G ROCKY FLATS INC
ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402-0464 (303) 966 7000

DIST	
NAME JC	
PLNGAME, AH	
C P RD	
COUCHER DW	
DAVS JG	
VE D JE	X
FARRER DW	
FARRIS LR	
FRAIKOR, FJ	
FANCIS, GE	
GOODWIN, R	
HEALY, TJ	
IC KER, EH	
JENS, J P	
KE, LE, P B	
KERSH J M	
KIRBY WA	
KIRKE, O, JA	
LE, M	
MAJESTIC, JR	
MATHEWS, TA	
MEURRENS, BE	
MORGAN RV	X
NORTH P	
PALMER LA	
POTTER, GL	X
PZUTO VM	
BUCHADES, II	
JE, I RE	
WANSON, ER	
WIEBE, JS	
WILKINSON, RB	
WILLIAMS, RE	
WILSON, J M	
YOUNG, ER	
ZANE, JO	
M B Arndt	X
W S Busby	X
W D Ewan	X
J W Langman	X
R G Porter	X
D M Smith	X
ED L HOFFER	X
FD 14-65	X
CORRESPONDENCE	
RAF, C	

May 20 1991

91 RF 3000

Robert M Nelson Jr
Manager
DOE, RFO

Attn John Rampe

OUT OF SPECIFICATION SURFACE WATER SAMPLE JEE 0043 91

Attached please find two Water Sample Reports and a map for two surface water samples which were out of specification with respect to current standards for radionuclides. Below is the tabulated data from surface water stations Pond C 2 and Pond A 3 taken December 5 1990 and October 29 1990 respectively. The specified reporting thresholds designated by IAG and CWQCC are also listed.

Location	Isotope	Threshold Limit (pCi/L)	Result (pCi/L)
C 2 pond	Plutonium 239 240	0 05	0 073 ± 0 024
C 2 pond	Americium 241	0 05	0 082 ± 0 020
A 3 pond	Americium 241	0 05	0 1 ± 0 023

This is the first out of specification event for the specific radionuclides mentioned above at both of these locations and may be an isolated occurrence. These stations are considered critical and are NPDES discharge points. However radionuclides are not required NPDES monitoring parameters.

We will keep a close watch on these stations. Future monitoring should determine if additional investigative measures are needed. The delay in reporting these out of specification results is due to sample backlog and analysis times of the contract lab.

CLASSIFICATION	
UCNI	XX
UNCLASSIFIED	XX
CONFIDENTIAL	
SECRET	

AUTHORIZED CLASSIFIER
SIGNATURE

J E Evered Director
Environmental Management

DATE 5/21/91

BAM csk

IN REPLY TO LTR NO

Orig and 1 cc R M Nelson Jr

Attachment
As Stated

PC#
LTR APPROVALS
MBA
KDL
ORIG & TYPIST INITIALS

ADMIN RECORD

RAM/CLK
RF 6469 (R 991)

A-0000 000069

1/2

OUT OF SPECIFICATION
WATER SAMPLE REPORT

Sample No. NP50214WC Date. October 29 1990 Lab. TMA/Norcal

Location. A 3 Pond Map attached. Yes

Quality Assurance Concerns. Data are not validated

<u>Parameter</u>	<u>Threshold Limit (pCi/L)</u>	<u>Result (pCi/L)</u>
Americium 241	0.05	0.1 ± 0.023

Source of Criterion. IAG CWQCC

Reporting Required? Yes Nature of Requirement Critical Station and
NPDES discharge point

Location of nearest surface water. Walnut Creek Water Classification
Segment 5

Source of observed results (if known). There was appreciable natural
precipitation on October 19 1990 0.32 inches and on October 20 1990
0.67 inches. None of the upstream surface water stations exhibited any
americium contamination.

Current control/investigative actions. On October 29 1990 Pond A 3
started being discharged. Clean Water Act Division (CWAD) monitored
Pond A 3 discharge radionuclides using the on site laboratory as part of
the State Exchange Report program. The Americium 241 concentration in
Pond A 3 Effluent reported to the State was 0.035 ± 0.037 pCi/L.

Proposed control/investigative actions. Further characterization of this
area will be included as part of the characterization of Operable Unit 6
Walnut Creek.

Other comments. Radionuclides are not required NPDES monitoring
parameters.

Date of Report. May 14 91

Preparer. B A Montano

24

OUT OF SPECIFICATION
WATER SAMPLE REPORT

Sample No. NP50268WC Date December 5 1990 Lab. TMA/Norcal

Location C 2 Pond Water Classification Segment 5 Map attached Yes

Quality Assurance Concerns. Data are not validated

<u>Parameter</u>	<u>Threshold Limit (pCi/L)</u>	<u>Result (pCi/L)</u>
Americium 241	0 05	0 082 \pm 0 020
Plutonium 239 240	0 05	0 073 \pm 0 024

Source of Criterion. IAG CWQCC

Reporting Required? Yes Nature of Requirement. NPDES discharge point

Location of nearest surface water. South Interceptor Ditch (SID) SW027
and Woman Creek Woman Creek is Water Supply Classification Segment 4

Source of observed results (if known). There was no natural precipitation
for ten days prior to this sampling date

Current control/investigative actions. Pond C 2 is not being discharged

Proposed control/investigative actions. Further characterization of this
area will be included as part of the characterization of Operable Unit 5
Woman Creek

Other comments. RFP is currently not reporting Pond C 2 data to
regulating agencies because we are not discharging Radionuclides are not
required NPDES monitoring parameters

Date of Report. May 14 91 Preparer. B A Montano

7/16

SURFACE WATER STATION
SEWAGE STATION

